



Document Number:	SASoM/METHOD/096.v3
Title:	Preparation and Fixation of Cell Culture Cytospin preparations.
Version:	v3
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SOP History		
Number	Date	Reason for Change
v1	13/05/2016	Original
v2	13/05/2018	Update
v3	13/05/2020	Biennial Update

1.0 Purpose –

This SOP describes the current procedure for preparing cytopins from cultured cells using the Shandon Cytospin instrument. A separate SOP is available for the operation of the instrument itself (SASoM/EQUIP/092). Both SOPs should be used in conjunction with each other.

2.0 Scope –

The scope of this document is to describe the procedure for preparing cytopins using the Shandon Cytospin.

3.0 Responsibilities –

All staff involved in looking in preparing cytopins using the Shandon Cytospin are responsible for ensuring that the methods are followed in accordance with this SOP. All staff must have read and signed the relevant risk assessment documents before performing this procedure.



4.0 Procedure –

1. All users must be familiar with SASoM/EQUIP/092 - Use of the Shandon Cytospin
2. Cells should be cultured, trypsinised, counted and then prepared at a final concentration of 0.2×10^6 cell/mL in PBS using standard cell culture techniques.
3. 100µl of the cell sample is pipetted into each previously assembled sample chamber, ensuring the pipette tip is inserted into the outlet port and not just the mouth of the funnel.
4. The samples are then centrifuged for 5 minutes at 800rpm.
5. Disassemble the slide carrier and carefully remove the slides, being careful to not disturb the cell smear on each slide.
6. Immerse the slides into ice-cold methanol and leave in ice for 2 minutes.
7. Remove the slides and then allow to air dry for 5-10 minutes at room temperature.
8. Store slides long term at -20°C prior to staining

5.0 Personal protection -

A Howie laboratory coat and lab gloves must be worn at all times.

6.0 Spillages -

Always clean up and disinfect any spills immediately after use, only you know what you have spilt and are aware of its hazard.

7.0 Training -

All staff should undergo training in this technique before performing procedure.

8.0 Related documents –

SOPS - SASoM/EQUIP/092 Use of the Shandon Cytospin



9.0 Approval and sign off –

Author:

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Signature: Date:

Management Approval:

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